Author Index to Volume 53

Agop, M., Matsuzawa, H., Oprea, I., Vlad, R., Sandu, C., and Buzea, C. G.—

Some implications of the gravitomagnetic field in fractal spacetime theory 217

Agop, M., Oprea, I., Sandu, C., Vlad, R., Buzea, C. G., and Matsuzawa, H.—

Some properties of the world crystal in fractal spacetime theory 231

Akhmediev, N., Das, M. P., and Vagov, A. V.— Bose–Einstein condensation of atoms with attractive interaction in a harmonic trap 157

Alam, M. K., and Chowdhury, A. R.—
Stability of a modulated ion acoustic wave in a magnetised plasma 289

Amos, K.— See Deb, P. K. 767

Aruna, S. A.— See Shan, L. 821

Barker, F. C .-

The low-energy ⁹Be(γ, n)⁸Be cross section 247 Bettega, M. H. F.—

Low-energy electron scattering by CS₂ molecules 785

Bettega, M. H. F., Lima, M. A. P., and Ferreira, L. G.—

Elastic scattering of low-energy electrons by OCS molecules 399

Bowen, G., Gulacsi, M., and Rosengreen, A.— Finite temperature correlation functions of the one-dimensional interacting electron systems 553

Bray, I .---

Electron-impact ionisation of atomic hydrogen from near threshold to high energies 355

Bulashenko, O. M.— See Reggiani, L. 3

Buzea, C. G.— See Agop, M. 217, 231

Chao-Qun, T.— See Zheng-Cai, X. 715 Chowdhury, A. R.— See Alam, M. K. 289

Clark, R. G.— See Reilly, D. J. 543

Dariescu, C., and Dariescu, M.-A.— Magnetic fields in spaces with VII₀×VIII isometries 347

Dariescu, M.-A.— See Dariescu, C. 347 Das, M. P.— Foreword 1

See Akhmediev, N. 157 Das, M., and Neilson, D.—

Foreword 461

Das, M. P., and Green, F.—
'Anomalous' resurgence of shot noise in long

conductors 499

Deb, P. K., Amos, K., and Karataglidis, S.—

Microscopic model analyses of the elastic

scattering of 25, 30 and 40 MeV protons from targets of diverse mass 767

Delbourgo, R., and Liu, D.— Electromagnetic and gravitational decay of the Higgs boson 647

On nonleptonic decays of supermultiplets 737

Dinte, B. P.— See Dobson, J. F. 575

Dobson, J. F., Dinte, B. P., Wang, J., and Gould, T.—

A novel constraint for the simplified description of dispersion forces 575

Dobson, J. F., Wang, J., and Le, H. M.— Some experimental prospects involving parabolic quantum wells 119

Dong-Xiang, Z.— See Zheng-Cai, X. 715

Du, C., and Li, S.-

Optical multistability from a squeezed vacuum in the presence of quantum interference 689

Dumitrescu, O.— See Mihailescu, D. 751

Dzurak, A. S.— See Reilly, D. J. 543

Edwards, P. J.—

Sub-Poissonian electronic and photonic noise generation in semiconductor junctions 179

Etschmann, B. E.— See Maslen, E. N. 299

Etschmann, B. E., and Maslen, E. N.—
Atomic radii from electron densities 317

Facer, G. R.— See Reilly, D. J. 543

Ferreira, L. G.—

See Bettega, M. H. F. 399

Flambaum, V. V.-

Time dynamics in chaotic many-body systems: Can chaos destroy a quantum computer? 489

Gonzalez, T.—

See Reggiani, L. 3

Gould, T .--

See Dobson, J. F. 575

Green, F .-

See Das, M. P. 499

Gulacsi, M .---

See Bowen, G. 553

See McCulloch, I. P. 597

Gutakovsky, A. K., Pintus, S. M., Toropov, A. I., Moshegov, N. T., Haisler, V. A.,

Rubanov, S., and Munroe, P .-

Study of strain relaxation in InAs/GaAs strained-layer superlattices by Raman spectroscopy and electron microscopy 697

Haisler, V. A .-

See Gutakovsky, A. K. 697

Hamilton, A. R .-

See Simmons, M. Y. 513

Hamilton, A. R., Simmons, M. Y., Pepper, M., and Ritchie, D. A.—

Influence of inversion symmetry on the metallic behaviour in a dilute two-dimensional hole system 523

Harko, T .-

See Mak. M. K. 241

Hermann, J. A .-

Microwave absorption in layered media: Application to landmine detection 723

Hollenberg, L. C. L .--

The didjeridu: Lip motion and low frequency harmonic generation 835

Hu, B. Y.-K.-

Theory of frictional drag in coupled quantum wells: Beyond weak coupling 107

Hughes, J. M .-

See Sudarko 665

Hung, K. C .-

See Tang. Y. L. 707

Irons, F. E .-

An atomistic interpretation of Planck's 1900 derivation of his radiation law 193

Jian-Hui, Y.—

See Zheng-Cai, X. 715

Jin, X.-

See Tang, Y. L. 707

See Shan, L. 821

Kane, B. E .-

See Reilly, D. J. 543

Karataglidis, S .--

See Deb. P. K. 767

Karczewska, D., and Manka, R .-

Monopole in the dilatonic gauge field theory 653

Lam, C. C .-

See Tang. Y. L. 707

Le. H. M .--

See Dobson, J. F. 119

Lewandowski, J. L. V .-

Hybrid model for drift waves in fully three-dimensional plasmas; Theory and applications 259

Li, S.-

See Du. C. 689

Li, X. Z .-

See Tang, C. Q. 829

Lima, M. A. P .-

See Bettega, M. H. F. 399

Linfield, E. H.—

See Simmons, M. Y. 513

Liu, D.—

See Delbourgo, R. 647, 737

Liu, N.-N.-

See Wang, X.-G. 453

Liu, Y .--

The Bose-Einstein condensation of anyons 447

Lu, D. W .-

See Tang, Y. L. 707

Lumpkin, N. E .-

See Reilly, D. J. 543

Mak, M. K., and Harko, T.—

Exact causal bulk viscous stiff cosmologies 241

Manka, R.-

See Karczewska, D. 653

Maslen, E. N .-

See Etschmann, B. E. 317

Maslen, E. N., and Etschmann, B. E.— Bonding without ionisation 299

Mateos, J .--

See Reggiani, L. 3

Matsuzawa, H.-

See Agop, M. 217, 231

McCulloch, I. P., and Gulacsi, M.—

Density matrix renormalisation group metho

Density matrix renormalisation group method and symmetries of the Hamiltonian 597

Meyerovich, A. E., and Stepaniants, A .-

Transport, quantum interference, and localisation in ultrathin systems with randomly corrugated walls and interfaces 53

Midgley, S., and Wang, J. B .-

Time-dependent quantum waveguide theory: A study of nano ring structures 77

Mihailescu, D., Radu, D., and Dumitrescu, O.— Neutral currents in the ¹⁶O nucleus 751

Milburn, G. J .--

Quantum measurement and stochastic processes in mesoscopic conductors 477 Milburn, G. J., Sun, H. B., and Upcroft, B.— Absorptive quantum measurements via coherently coupled quantum dots 463

Moshegov, N. T.— See Gutakovsky, A. K. 697

Munroe, P .-

See Gutakovsky, A. K. 697

Nagy-Felsobuki, E. I. von— See Sudarko 665

Ness, K. F., and Nolan, A. M.— Flux and reactive contributions to electron transport in methane 437

Neilson, D.-

See Das, M. 461 See Thakur, J. S. 537

Neilson, D., Thakur, J. S., and Tosatti, E.— Characterising the metal–insulator transition in two dimensions 531

Nolan, A. M.— See Ness, K. F. 437

O'Brien, J. L.—

See Reilly, D. J. 543

Oprea, I.—

See Agop, M. 217, 231

Pan, S.-H.— See Shi, J.-J. 35 See Wang, X.-G. 453 Pardo, D.— See Reggiani, L. 3

Pepper, M.— See Simmons, M. Y. 513 See Hamilton, A. R. 523

Pfeiffer, L. N.— See Reilly, D. J. 543

Pintus, S. M.— See Gutakovsky, A. K. 697

Radu, D.—

See Mihailescu, D. 751

Reggiani, L., Reklaitis, A., Gonzalez, T.,

Mateos, J. Pardo, D., and

Mateos, J., Pardo, D., and Bulashenko, O. M.—

Monte Carlo investigation of shot-noise suppression in nondegenerate ballistic and diffusive transport regimes 3

Reilly, D. J., Facer, G. R., Dzurak, A. S., Kane, B. E., Clark, R. G., O'Brien, J. L., Lumpkin, N. E., Pfeiffer, L. N., and West, K. W.—

Many-body spin interactions in semiconductor quantum wires 543

Reinholz, H.-

A generalised linear response theory applied to the dielectric function of Coulomb systems 133

Reklaitis, A .-

See Reggiani, L. 3

Ritchie, D. A.-

See Simmons, M. Y. 513

See Hamilton, A. R. 523

Rose, J. H., and Shore, H. B.— Valence of the elemental transition metals 167

See Simmons, M. Y. 513

Rosengreen, A .--

See Bowen, G. 553

Rowe, E. T., and Rowe, G. W.—

On the radiative instability 333

Rowe, G. W.—

See Rowe, E. T. 333

Rubanov, S .-

See Gutakovsky, A. K. 697

Ruzzene, F .-

Position indeterminacy 631 Position indeterminacy in ortho-positronium decay 641

Sanders, B. C.— See Shi, J.-J. 35 Sandu, C.—

See Agop, M. 217, 231

Saunders, G. A.—

See Senin, H. B. 805 Senin, H. B., Sidek, H. A. A., and Saunders, G. A.—

Acoustic vibrational properties and fractal bond connectivity of praseodymium doped glasses 805

Shan, L., Aruna, S. A., Xu, X.-N., Wang, Z.-H., and Jin, X.—

Real critical current density and material power law of YBa₂Cu₃O_{7-δ} epitaxial thin film 821

Shao, H. M.—

See Tang, Y. L. 707

Shen, L. J.— See Tang, Y. L. 707

Shi, J.-J., Sanders, B. C., and Pan, S.-H.— Coherent and phonon-assisted tunnelling in asymmetric double barrier resonant tunnelling structures 35

Shore, H. B.— See Rose, J. H. 167

Sidek, H. A. A.—

See Senin, H. B. 805 Simmons, M. Y.—

See Hamilton, A. R. 523

Simmons, M. Y., Hamilton, A. R., Pepper, M., Linfield, E. H., Rose, P. D., and Ritchie, D. A.— Is there a metallic state in two dimensions? 513

Stamps, R. L .-

Spin dynamics in low-dimensional magnetic structures 567

Stepaniants, A.— See Meyerovich, A. E. 53

Stewart, A. M.—

General gauge independence of diamagnetism plus paramagnetism 613 Sudarko, Hughes, J. M., and

Nagy-Felsobuki, E. I. von— Ro-vibrational transition energies and absorption intensities of the ¹A₁ states of

H₂O, He₂O²* and He₂S²* 665 Sun, H. B.— See Milburn, G. J. 463

Tang, C. Q., Xia, Z. C., Li, X. Z., and Yao, B. T.— Positron lifetimes and microhardness in thermal fatigued 4Cr5MoSiV steel 829

Tang, Y. L., Lu, D. W., Jin, X., Xuu, X. X., Shao, H. M., Lam, C. C., Shen, L. J., and Hung, K. C.—

Voltage response of AC susceptibility and pinning effects in Hg_{0.69}Pb_{0.31}Ba₂Ca₂Cu₃O₈₊₅ 707

Thakur, J. S.-

See Neilson, D. 531 Thakur, J. S., and Neilson, D.—

Quenching of the 2D metallic state by aligning the electron spins 537

Toropov, A. I.— See Gutakovsky, A. K. 697

Tosatti, E.— See Neilson, D. 531

Upcroft, B.— See Milburn, G. J. 463

Vagov, A. V.— See Akhmediev, N. 157 Vlad, R.— See Agop, M. 217, 231 Wang, J.— See Dobson, J. F. 119, 575

Wang, J. B.— See Midgley, S. 77

Wang, X.-G., Liu, N.-N., Pan, S.-H., and Yang, G.-Z.—

Phase transition properties of a finite ferroelectric superlattice from the transverse Ising model 453

Wang, Z.-H.— See Shan, L. 821 West, K. W.—

See Reilly, D. J. 543

Xia, Z. C.— See Tang, C. Q. 829 Xu, W.—

Dynamical properties of a terahertz driven two-dimensional electron gas 87

Xu, X.-N.— See Shan, L. 821 Xuu, X. X.— See Tang, Y. L. 707

Yang, G.-Z.— See Wang, X.-G. 453 Yao, B. T.— See Tang, C. Q. 829

Zhang, C .-

Electromagnetic absorption in two-dimensional systems under a magnetic field and a unidirectional periodic potential 65

Zheng, S.-B.-

Collapses and revivals of the coherence of a mesoscopic superposition of motional states 413

Preparation of superpositions of SU(2) coherent states of the motion of a trapped ion 421

Scheme for direct measurement of the two-mode Wigner function in cavity QED and ion traps 429

Preparation of motion entangled coherent states of two cavity mirrors 793

Generation of multicavity entangled states with a single three-level atom 799

Zheng-Cai, X., Chao-Qun, T., Dong-Xiang, Z. and Jian-Hui, Y.—

Effect of interfaces on dielectric relaxation in La_{0.35}Sr_{0.6}MnO₃-YSZ 715

